

SEQUENCE LISTING

<110> Merck Patent GmbH

<120> Histidine Protein Phosphatase

<130> Histidine Phosphatase Protein

<140>

<141>

<160> 11

<170> PatentIn Ver. 2.1

<210> 1

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(375)

<223> Human histidine protein phosphatase

<400> 1

atg gcg gtg gcg gac ctc gct ctc att cct gat gtg gac atc gac tcc
48Met Ala Val Ala Asp Leu Ala Leu Ile Pro Asp Val Asp Ile Asp Ser
1 5 10 15gac ggc gtc ttc aag tat gtg ctg atc cga gtc cac tcg gct ccc cgc
96Asp Gly Val Phe Lys Tyr Val Leu Ile Arg Val His Ser Ala Pro Arg
20 25 30tcc ggg gct ccg gct gca gag agc aag gag atc gtg cgc ggc tac aag
144Ser Gly Ala Pro Ala Ala Glu Ser Lys Glu Ile Val Arg Gly Tyr Lys
35 40 45tgg gct gag tac cat gcg gac atc tac gac aaa gtg tcg ggc gac atg
192Trp Ala Glu Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Asp Met
50 55 60

cag aag caa ggc tgc gac tgt gag tgt ctg ggc ggc ggc cgc atc tcc

240

Gln Lys Gln Gly Cys Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser
 65 70 75 80

cac cag agt cag gac aag aag att cac gtg tac ggc tat tcc atg gcc
 288

His Gln Ser Gln Asp Lys Lys Ile His Val Tyr Gly Tyr Ser Met Ala
 85 90 95

tat ggt cct gcc cag cac gcc att tca act gag aaa atc aaa gcc aag
 336

Tyr Gly Pro Ala Gln His Ala Ile Ser Thr Glu Lys Ile Lys Ala Lys
 100 105 110

tac ccc gac tac gag gtc acc tgg gct aac gac ggc tac
 375

Tyr Pro Asp Tyr Glu Val Thr Trp Ala Asn Asp Gly Tyr
 115 120 125

<210> 2

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2

Met Ala Val Ala Asp Leu Ala Leu Ile Pro Asp Val Asp Ile Asp Ser
 1 5 10 15

Asp Gly Val Phe Lys Tyr Val Leu Ile Arg Val His Ser Ala Pro Arg
 20 25 30

Ser Gly Ala Pro Ala Ala Glu Ser Lys Glu Ile Val Arg Gly Tyr Lys
 35 40 45

Trp Ala Glu Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Asp Met
 50 55 60

Gln Lys Gln Gly Cys Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser
 65 70 75 80

His Gln Ser Gln Asp Lys Lys Ile His Val Tyr Gly Tyr Ser Met Ala
 85 90 95

Tyr Gly Pro Ala Gln His Ala Ile Ser Thr Glu Lys Ile Lys Ala Lys
 100 105 110

Tyr Pro Asp Tyr Glu Val Thr Trp Ala Asn Asp Gly Tyr

115

120

125

<210> 3
 <211> 16
 <212> PRT
 <213> mammalian

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> conserved mammalian sequence

<400> 3
 Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His Gln Ser Gln Asp
 1 5 10 15

<210> 4
 <211> 33
 <212> PRT
 <213> mammalian

<220>
 <221> PEPTIDE
 <222> (1)..(33)
 <223> conserved mammalian sequence 2

<220>
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 <222> (17)
 <223> X = K or R

<220>
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 <222> (27)
 <223> X = A or G

<220>
 <221> SITE
 <222> (30)
 <223> X = P or R

<400> 4
 Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His Gln Ser Gln Asp
 1 5 10 15

Xaa Lys Ile His Val Tyr Gly Tyr Ser Met Xaa Tyr Gly Xaa Ala Gln

20

25

30

His

<210> 5

<211> 44

<212> PRT

<213> mammalian

<220>

<221> PEPTIDE

<222> (1)..(44)

<223> conserverd mammalian sequence 3

<400> 5

Tyr	His	Ala	Asp	Ile	Tyr	Asp	Lys	Val	Ser	Gly	Asp	Met	Gln	Lys	Gln
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Gly	Cys	Asp	Cys	Glu	Cys	Leu	Gly	Gly	Gly	Arg	Ile	Ser	His	Gln	Ser
			20					25					30		

Gln	Asp	Lys	Lys	Ile	His	Val	Tyr	Gly	Tyr	Ser	Met
		35					40				

<210> 6

<211> 124

<212> PRT

<213> rabbit

<220>

<221> PEPTIDE

<222> (1)..(124)

<223> rabbit histidine protein phosphatase

<400> 6

Ala	Ala	Ala	Gly	Leu	Ala	Gln	Ile	Pro	Asp	Val	Asp	Ile	Asp	Ser	Asp
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Gly	Val	Phe	Lys	Tyr	Val	Leu	Ile	Arg	Val	His	Ala	Ala	Pro	Pro	Ser
			20					25					30		

Glu	Ala	Pro	Gly	Gly	Glu	Ser	Lys	Asp	Ile	Val	Arg	Gly	Tyr	Lys	Trp
		35					40					45			

Ala	Glu	Tyr	His	Ala	Asp	Ile	Tyr	Asp	Lys	Val	Ser	Gly	Glu	Leu	Gln
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50 55 60
 Lys Lys Gly His Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His
 65 70 75 80
 Gln Ser Gln Asp Arg Lys Ile His Val Tyr Gly Tyr Ser Met Gly Tyr
 85 90 95
 Gly Arg Ala Gln His Ser Val Ser Thr Glu Lys Ile Arg Ala Lys Tyr
 100 105 110
 Pro Asp Tyr Glu Val Thr Trp Ala Asp Asp Gly Tyr
 115 120

<210> 7
 <211> 123
 <212> PRT
 <213> rat

<220>
 <221> PEPTIDE
 <222> (1)..(123)
 <223> rat histidine protein phosphatase

<400> 7
 Asn Gly Leu Asn Thr Thr Arg Gly Lys Gly Ser Ser Pro Leu Gly Lys
 1 5 10 15
 Asp His Gln Glu Leu Glu Leu Leu Thr Pro Tyr Pro Ala Val Lys Phe
 20 25 30
 Ser Val Gly Pro Thr Arg Ala Thr Arg Ala Tyr Pro Glu Ala Thr Leu
 35 40 45
 Pro Thr Ser Ala Asp Ile Tyr Asp Lys Val Ser Gly Glu Leu Gln Lys
 50 55 60
 Asn Gly Tyr Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His Gln
 65 70 75 80
 Ser Gln Asp Arg Lys Ile His Val Tyr Gly Tyr Ser Met Gly Tyr Gly
 85 90 95
 Arg Ala Gln His Ser Val Ser Thr Glu Lys Ile Lys Ala Lys Tyr Pro
 100 105 110
 Asp Tyr Glu Val Thr Trp Ala Asp Asp Gly Tyr

115

120

<210> 8
 <211> 124
 <212> PRT
 <213> mouse

<220>
 <221> PEPTIDE
 <222> (1)..(124)
 <223> mouse histidine protein phosphatase

<400> 8
 Met Ala Ala Asp Leu Gly Gln Ile Pro Asp Val Asp Ile Asp Ser Asp
 1 5 10 15
 Gly Val Phe Lys Tyr Val Leu Ile Arg Val His Leu Ala Glu Pro Ser
 20 25 30
 Gly Asp Pro Ala Lys Glu Cys Lys Glu Ile Val Arg Gly Tyr Lys Trp
 35 40 45
 Ala Glu Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Glu Leu Gln
 50 55 60
 Arg Asn Gly Tyr Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His
 65 70 75 80
 Gln Ser Gln Asp Arg Lys Ile His Val Tyr Gly Tyr Ser Met Gly Tyr
 85 90 95
 Gly Arg Ala Gln His Ser Val Ser Thr Glu Lys Ile Lys Ala Lys Tyr
 100 105 110
 Pro Asp Tyr Glu Val Thr Trp Ala Asp Asp Gly Tyr
 115 120

<210> 9
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Peptide for
 generating an antibody directed against histidine
 protein phosphatase

<400> 9

Gln Ile Pro Asp Val Asp Ile Asp Ser Asp Gly Val Phe Lys Tyr Val
 1 5 10 15

<210> 10

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: peptide for
 generating an antibody directed against histidine
 protein phosphatase

<400> 10

Cys Leu Gly Gly Gly Arg Ile Ser His Gln Ser Gln Asp Lys
 1 5 10

<210> 11

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: peptide for
 generating an antibody directed against histidine
 protein phosphatase

<400> 11

Cys Thr Glu Lys Ile Lys Ala Lys Tyr Pro Asp Tyr Glu Val
 1 5 10

09914531-090401
 104060-15941650